

## **Content**

Preface	5
<b>Chapter 1 – Introduction Rheology</b> Flow Behaviour and Rotational Rheometers	7
<b>Chapter 2 – Rheological Measurements</b> Rheological Characterization of Coatings Yield Point, Thixotropy and Oscillation	13
<b>Chapter 3 – Application Examples</b> Rheological Methods for Coating Systems	25
<b>Chapter 4 – Rheology and Surface Charge</b> Characterization of Disperse Systems (Part 1)	39
<b>Chapter 5 – Particle Size Determination</b> Characterization of Disperse Systems (Part 2)	53
<b>Chapter 6 – Thermal Analysis</b> Dynamic Mechanical Analysis DMA	61
<b>Chapter 7 – Scratch Resistance</b> Methods for Characterizing the Scratch Resistance	69

<b>Chapter 8 – Surface Structure</b> Analysis of the Surface Structure of Substrates and Coatings	83
<b>Chapter 9 – Surface Tension</b> Surface Tension and Physical Coating Properties	97
<b>Chapter 10 – Coating Defects</b> Microscopical Defect Analysis	117
<b>Chapter 11 – Weathering</b> Introduction to Weathering Testing	129
<b>Literature Sources</b>	137
<b>Biography</b>	140